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AGRICULTURAL LIBRARIES INFORMATION NOTES

National
Agricultural
Library

U.S. Department of
Agriculture
Beltsville, Md. 20705

ISSN: 0095-2699

Volume 10, Number 6

June 1984

ELECTRONIC MAIL IN RESEARCH LIBRARIES*

by
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The transmission of brief messages, memoranda, newsletters, interlibrary loan requests, and other forms of communication via electronic mail is an emerging trend in North American research libraries. This trend is made possible by the conjunction and wide-spread availability of telephones, terminals, computers, microcomputers, communicating word processors, and telecommunications networks.

Survey Results. In January of 1984, in order to learn more about the use of electronic mail (EM) in research libraries, the Office of Management Studies of the Association of Research Libraries distributed questionnaires to 117 member institutions. Sixty-nine percent of those institutions responded (81), with 43 percent of those (35) indicating that they now use some form of electronic mail in their library. Over 20 different electronic mail services were identified by the responding libraries. Fourteen institutions indicated that they had electronic mail but used their own in-house or local campus-wide system. This, when added to the other systems identified, brings the total number of different electronic mail systems to over 30. Fifty-seven percent of those responding libraries (46) indicated that they did not presently use any system of electronic mail. But of these, 26 percent or 12 indicated that they were now in the planning stages for adopting one. Therefore, a total of 58 percent of the responding libraries either now use or are planning to use electronic mail in the near future. The potential for EM networking should, therefore, be noted by library directors.

Background. Strictly speaking, electronic mail is not a new phenomenon. Its use was first demonstrated by Samuel F. B. Morse in 1838; and the TWX, TELEX, AP, and UPI wire services, as well as telefacsimile transmissions, are other forms of electronic mail. All of these have been seen in libraries for some time. However, electronic mail, as the service is now usually described, consists of a much more democratic form of communication, one that is independent of the traditional telegraphic equipment. Electronic mail today is direct user-to-user communication of typed information transmitted via the intermediary of a host computer system. How it works is simple: information that an EM user in one location wishes to send to another is typed into an "electronic address" in a host computer. There the information is stored until "read" by the other person. (In some systems the act of reading the information deletes it from the mailbox.) The typed information may be a brief message, a long manuscript, an interlibrary loan form, a reference inquiry, or any other kind of alpha/numeric information so long as the form of that information is compatible with the host computer system and the input equipment (usually a dial-up terminal). As most electronic mail services utilize dial-up, time-sharing computer systems, mail can be "sent" or "received" from user-to-user without regard to the traditional problems imposed by time zone differences

or geographic locations. (Actually, since the information is stored in a computer's memory and simply moved from the sender's address to the receiver's address, it isn't really sent anywhere anyway; therefore, all communication is instantaneous.)

EM Uses in Research Libraries. Given its relative ease of use and low cost, electronic mail is ideal for transferring interlibrary loan requests from one library to another, or for making inquiries as to the availability of a particular book in a branch library or at another campus. Many libraries are already using OCLC for such interlibrary loan purposes. Reference librarians and database searchers may also use EM to forward difficult questions to a subject specialist; or even to access the online information retrieval systems such as DIALOG and BRS. Some EM systems, DIALCOM for example, offer "gateway" connections (i.e. transparent telephone linkages from one system to another without dropping the first) which automatically store output from an online database search in the EM user's electronic mailbox. The results of a database search may then be forwarded to another user of the EM system without ever hanging up the telephone. And, if the library has worked out the procedures, the recipient of the database search can forward back to the interlibrary loan office a request for a document to be delivered, all this through an electronic mail network. Library managers also use electronic mail and report its usefulness in support of administrative services. Committee meetings can be announced and agendas sent out; minutes can be circulated promptly and commented on through the EM network. Some EM services even offer calendar scheduling systems which can assist busy people with the onerous task of coordinating meetings. EM is also used in some locations in support of the budget justification process and appears to be ideal for large and decentralized operations. By transmitting from microcomputers or word processors into EM networks remote campus libraries and branch offices can submit budget material in a more timely manner.

From Electronic Mail to Electronic Publishing. As more libraries become linked together in EM networks, and brief messages become long manuscripts, electronic mail becomes electronic publishing. Actually, the two represent two segments of the same line. Some EM systems offer only limited text transmission capabilities (e.g. brief messages or fixed format communications such as interlibrary loan requests), others offer not only the capacity to transmit lengthy manuscripts (such as the text of a journal article or even a book), but text editing, word processing, and dictionary look-up (spelling) support services as well. These EM features may be utilized in the creation and distribution of decentralized campus or agency newsletters. Manuscripts representing columns, features, bibliographies, lists of new acquisitions, etc. can be created locally, then forwarded to a central editor or publisher for final approval, and distributed throughout the EM network. The distribution can then be automatic through a hierarchy for approval, or laterally to department heads, managers, or branch libraries at other campuses. And delivery is always immediate with no mail room delays or delivery schedules to deal with. To study the implications of this form of publishing, the American Association of Publishers (AAP) has contracted for a major study to be conducted.

Called the Electronic Publishing Project, the AAP hopes to develop a set of generic standards for use in tagging both the bibliographic and textual elements of manuscripts (e.g. author/title data; chapter headings, and even paragraphs). This should facilitate the electronic transmission and further manipulation of manuscripts by authors, publishers, libraries, and full text database vendors.

Policy Issues of Concern to Management. Library directors should be aware of the great potential electronic mail offers for reaching out to new user communities; for speeding up the document request and delivery process; for extending the library's presence into every home and office in a user community. But they should also be aware of the increased demands this extension is likely to have on library facilities. They should also be reminded of the additional costs that must be incurred with the installation of electronic mail. While the costs of most systems is relatively low, like personal long distance phone calls, the charges tend to add up. Also, where downloading from online retrieval systems is involved, or the transference of full text information from a vendor's database to a library user's electronic address, copyright issues may come into play. And, although the existing equipment used in online retrieval operations will be sufficient for use with new EM systems, staff members will require additional training in the use of these systems. Time and money will again be involved. And, finally, incompatibility between EM systems should be taken into consideration. No universal standard exists for electronic mail as it does for telephone service. Many EM systems will not communicate with each other; or if they will, users often don't know the procedures for doing so.

Sociology and User Attitudes. Librarians everywhere are linking hands electronically to provide greater service to the public. EM networks are developing rapidly, documents are being published online, and full text databases are becoming available for immediate document storage and delivery: the information society washes over us. But what is being lost? Could it be the human touch? If all information is available to everyone electronically and immediately, could the price of immediacy be total irrelevance? Will all EM users be satisfied to receive their mail, manuscripts, and newsletters in electronic format? Will they miss the colorful paper, attractive layout, the photographs, and interesting marginalia that they have come to expect from printed products? Can the left to right reading of monotonous EM script ever replace the quick scan possible with an analogue page? Will out-of-sight storage prove also to be out-of-mind and lost to personal memory? Or will new and attractive "forms" of electronic communication be developed to satisfy human aesthetic needs?

*A slightly revised version of this essay will appear as the introduction to SPEC (Systems and Procedures Exchange Center) Kit #106, July/August 1984, which will contain a detailed breakdown of the survey results, a list of EM vendors, plus 100 pages of text on EM. Copies are available from the Association of Research Libraries, Office of Management Studies, 1527 New Hampshire Ave., N.W., Washington, D.C. 20036. Telephone (202) 232-8565 (free to members, \$15.00 to all others).



MICRO CORNER

S.T. WATERS, EDITOR

COMPUTERIZING BUDGET INFORMATION

Utilization of the computer during the budget cycle is becoming more evident as analysts begin to see its advantages in the storage and retrieval of the large quantities of information it is necessary to have available as background for explaining and justifying current and proposed programs. With no previous experience, but with the help of a software manual and some expert advice, I started an index system that will enable me to retrieve information in the future as rapidly as I need it. It took just a few hours of practice and instruction before I was able to enter information and operate the computer without assistance.

I started by indexing the questions and answers resulting from the House and Senate Budget Hearings this year (50 from the House and 26 from the Senate). This index will be used to prepare our staff before future hearings, for quick information retrieval at the hearings, and for special inquiries. An IBM Personal Computer with Datafax software was used. After numbering each question and answer, I assigned an average of three index terms to each, and entered each index term into the computer, linked to its document number. In response to a single command, the system can print out a list of all index terms, in alphabetical order, each index term showing the number of the document indexed by that subject.

For example:

Array Processor - H6
Boolean Logic - H36
Cooperative Indexing - H23
Deacidification - H19

When I look for information on cooperative indexing, the printed index tells me there is a reference to this topic in House question and answer number 23. In addition to the printed index, I can search any term or combination of terms directly on the computer using the Datafax software. Thus, if I want to search for a certain specific piece of information relating to a broader subject, I can do so without recalling all items on the broad topic. For example, if I want to search for a document on the users of CALS, it is possible to do that by searching for articles indexed under both "users" and "CALS," rather than looking at all articles indexed under "CALS."

The savings in time and effort by having this information readily available rather than by searching numerous document files is considerable. Additional information will be indexed as published and new index lists provided from time to time. You can enter information as varied as your needs and get it back in a timely and appropriate manner, as and when you need it.

--Alan Talcott
Budget Analyst, NAL
(301) 344-1570

Items on new uses of microcomputers in libraries should be submitted to Sam T. Waters, National Agricultural Library, Room 200, Beltsville, MD 20705.

SECRETARY OF AGRICULTURE JOHN BLOCK VISITS NAL

On May 16 Secretary John Block visited the National Agricultural Library as part of his tour of the Beltsville Agricultural Research Center. Upon his arrival he was greeted by Joseph Howard, Director, and escorted to the "best seat in the house" for an online demonstration of the full text database project. Following the demonstration, Secretary Block held a press conference in the lobby of NAL. Television coverage of his visit was shown locally on May 20.



Secretary of Agriculture John Block holds a press conference at NAL following his tour of the Beltsville Agricultural Research Center. (USDA Photo)



After the demonstration of the full text database project, the Secretary and his staff gathered around the terminal for an informal search of the database. Here Ruben Aragon, Education & Information Staff, performs an "author" search of the AGRICOLA database. (USDA Photo)




Secretary Block (center) and Deputy Secretary Richard E. Lyng (left) tour the main reading room of NAL with Director Joseph Howard (right). (USDA Photo)




At the conclusion of the Secretary's staff meeting held in Beltsville, Secretary of Agriculture John Block (left seated at table) and University of Maryland President J. S. Toll (right) sign a Memorandum of Understanding for cooperative research on biotechnology. (USDA Photo)

PLANT LECTURE AVAILABLE


National Agricultural Library historian Alan Fusonie has prepared a lecture on the entirely new range of economic plants introduced to Europe after the discovery of the New World. The illustrated presentation focuses on the 400 years between the discovery of the New World and 1860 when European observers, travelers, and dedicated naturalists explored the Americas gathering, classifying, and labeling plant specimens. The lecture, which Fusonie is offering to present to interested groups, explores the flora collected and reflected in early botanical illustrated pre-1860 publications and in early seed trade catalogs. The lecture includes rare botanical books. For further information contact: Alan Fusonie, National Agricultural Library, Beltsville, MD 20705, (301) 344-3876. 

FARM EDITOR OF THE YEAR


Ward Sinclair, agriculture writer for the Washington Post, has been named "Newspaper Farm Editor of the Year" by the National Association of Farm Writers for his series, "A Chemical Harvest," an examination of pesticide use and regulation. He was also awarded first place in the column analysis category for a commentary on the environmental price of farm exports. The award, formally called the "Glenn Cunningham Memorial Newspaper Farm Editor of the Year Award," is given for the best overall performance in an annual writing contest sponsored by the Newspaper Farm Editors of America. 

NAL SEEKS PROFESSIONAL STAFF MEMBERS


The National Agricultural Library (NAL) is now proceeding to actively recruit for new professional staff members in the Public Services area. We are looking for subject specialists who have at least bachelor degrees in agricultural related fields in addition to a master's degree in library science. The Librarian

register is open for applicants who have a specialty in the physical and biological sciences. Any interested candidates should apply to the Office of Personnel Management to be rated for the Librarian Register, and if they are specifically interested in a position at NAL they should send a copy of their application to the Director, NAL, at the time they submit this application to the Office of Personnel Management, 1900 E. Street, N.W., Washington, D.C. 20415. Information on applying for the Librarian Register is also available from the Office of Personnel Management. 

SYMPOSIUM PROCEEDINGS AVAILABLE

The proceedings of the symposium on Twentieth Century Agricultural Science--Discovery, Use, Preservation has been published in the Journal of NAL Associates, New Series, Vol. 8, Nos. 1/4, Jan./Dec. 1983, and is now on sale from the Associates NAL, Inc. The symposium, held October 20-22, 1982, focused on the trends in the identification, development, utilization, and dissemination of agricultural information in the 20th century; the interaction between scientists, information specialists, librarians, and others; and the impact of information on current research. The symposium was sponsored by the National Agricultural Library, the Associates of the National Agricultural Library, Inc., and the Agricultural History Society. Cost of the published proceedings is \$32.00 plus \$2.54 postage and handling. Orders should be sent to Associates NAL, Inc., 10301 Baltimore Blvd., Room 203, Beltsville, MD 20705. 

JOSEPH HOWARD, DIRECTOR OF NAL, ELECTED TO Z39 EXECUTIVE COUNCIL

It was announced at the National Information Standards Organization (Z39) Annual Meeting on May 3 that the voting members of Z39 have elected Joseph Howard (Director of the National Agricultural Library) and Ursula Springer (President, Springer Publishing) to serve as members of the Z39 Executive Council, the governing board of NISO (Z39). Mr. Howard will serve as councilor representing the library community and will begin his term of office on July 1, 1984. 


DATABASES PRESENTED AT ASIS MIDYEAR MEETING

Two databases--relating to general Extension Information and pesticides--were demonstrated to the Rural Information Systems Group (RIS) at the Midyear Meeting of the American Society for Information Science (ASIS), May 21, at Purdue University.

Eldon Fredericks, Head of the Agricultural Communication Services, Purdue University, introduced the databases which were designed at Purdue. The first, Fast Agricultural Communications Terminal System (FACTS) is a stand-alone system designed for farmers, homemakers, and agri-business personnel. This is available in the 92 county and 5 regional offices of the Cooperative Extension Service. It provides a daily bulletin board, detailed information on specific topics, and computer programs for individual operations, such as dairy herd management or grain management. Many farmers are purchasing microcomputers or, alternatively, using the financial software packages available from FACTS at the Extension offices because lenders are requiring extensive financial data before they will discuss credit.

The second system, National Pesticide Information Retrieval System (NPIRS) was chartered by the U.S. Department of Agriculture to gain some control over pesticide regulations. There are approximately 57,000 pesticides available commercially, and there are about 15,000 regulatory activities each year. The system has been online with Martin Marietta since 1983.

For information contact:

Jim White
NPIRS, Entomology Hall
Purdue University
West Lafayette, IN 47907
or
Phil Beetley
Agricultural Data Network
105 Smith Hall
Purdue University
West Lafayette, IN 47907 



ASSOCIATES NAL, INC.

ANNUAL MEETING - JULY 13, 1984

Professor Joseph Ewan, emeritus professor of botany, Tulane University, will be the guest speaker at the annual meeting and luncheon of the Associates NAL, Inc. on July 13, 1984, to be held at the Holiday Inn, I-95 and U.S. 1, Beltsville, MD. Professor Ewan is a renowned botanist, author, and bibliophile, and will recount some of his book-collecting adventures. Cost of the luncheon is \$10.00 per person. Reservations should be sent to the Executive Secretary, Associates NAL, Inc., Room 203, National Agricultural Library, Beltsville, MD 20705. Deadline for reservations is July 5.

AGENDA


11:30-12:00	Cash Bar
12:00-1:00	Luncheon Served: Va. Ham w/Pineapple Sauce Tossed Salad, Red Potatoes Green Beans Amandine Apple Pie, Beverage
1:00	Guest Speaker and Business Meeting

I will attend the Annual Meeting and Luncheon of the Associates NAL, Inc., on July 13, 1984.

NAME

PHONE NO.

NO. ATTENDING

Enclosed is my check for \$10 to cover the cost of the luncheon. Final deadline for luncheon reservations is July 5, 1984. 



NEW BIBLIOGRAPHIES

BIBLIOGRAPHY OF REVIEWS AND METHODS OF PHOTOSYNTHESIS. Z. Sestak and J. Catsky. Praha, Czechoslovak Academy of Sciences, in Photosynthetica, v. 17 (2), 1983. p. 289-316. (NAL Call No.: QK882.A1P4).

EASTERN EQUINE ENCEPHALITIS (JAN. 70-MAY 81): CITATIONS FROM THE NTIS DATABASE--NEW ENGLAND RESEARCH APPLICATION CENTER. Springfield, VA, NTIS, 1981. 1 v. (various pagings). (NAL Call No.: Z6674.E2).

ELECTROPHORESIS (TECHNIQUES, CARBOHYDRATES, LIPIDS, PLANT PROTEINS, ANIMAL TISSUES, ENZYMES HYDOLASES). Amsterdam, Elsevier Scientific, in Journal of Chromatography. v. 269 (1), Oct. 21, 1983. p. B492-B511. (NAL Call No.: 475 J824).

GAS CHROMATOGRAPHY (APPARATUS, ANALYTICAL TECHNIQUES FOR CARBOHYDRATES, LIPIDS, STERIODS, ORGANIC COMPOUNDS). Amsterdam, Elsevier Scientific, in Journal of Chromatography. v. 269 (1), Oct. 21, 1983. p. B438-B471. (NAL Call No.: 475 J824).

GUAYULE RUBBER: CULTIVATION AND MANUFACTURE (1977 - AUG. 83): CITATIONS FROM THE RUBBER AND PLASTICS RESEARCH ASSOCIATION DATA BASE--NATIONAL TECHNICAL INFORMATION SERVICE. Springfield, VA, NTIS, 1983. 1 v. (various pagings). (NAL Call No.: Z6297.G8).

PLANAR CHROMATOGRAPHY (APPARATUS, ANALYTICAL TECHNIQUES FOR FLAVONOIDS, AFLATOXINS, MYCOTOXINS, CARBOHYDRATES, LIPIDS, STERIODS, OTHER ORGANIC COMPOUNDS). Amsterdam, Elsevier Scientific. In Journal of Chromatography. v. 269 (1), Oct. 21, 1983. p. B471-B491. (NAL Call No.: 475 J824).

POLYMER COMMUNICATIONS. Guildford, England, Butterworth Scientific Ltd., began with vol. 24, no. 1 (Jan. 1983) issue. (NAL Call No.: TP156.P6P6 Suppl.).

SELECT BIBLIOGRAPHY ON LEGUME-RHIZOBIUM SYMBIOSIS 1976-1979. N. Mohan Rao. Bangalore, India, University of Agricultural Sciences, 1981. 184 p. UL bibliographical series no. 50. (NAL Call No.: Z5071.A3U8 no. 50).

SOLAR PONDS. Architecture series: bibliography, 0194-1356 A765. Robert W. Lockerby. Monticello, IL, Vance Bibliographies, 1982. 15 p. (NAL Call No.: Z5853.S63L62).



QUICK BIBLIOGRAPHIES

The bibliographies in this series are primarily computerized online or batch bibliographies emanating from searches performed by the NAL Reference Staff in response to customer requests. Searches are selected for inclusion based on the currency of the topic, interest among clientele, relative length and probable value to a larger audience. All titles in this series will be listed for 6 months. Revisions or updates will be renumbered and reannounced. Only one copy of a title will be sent; however, requestors may make copies. To request a copy of a Quick Bibliography send the title, series number, and a return addressed label to:

Reference Section, Room 111
National Agricultural Library
Beltsville, MD 20705

NAL--Q.B.--84-15. DROUGHT RESISTANCE--PATHWAY TO PRODUCTIVITY, 1979-1983. 246 citations from AGRICOLA. Searched by Mary E. Lassanyi. February 1984.

NAL--Q.B.--84-16. WIND ENERGY FOR AGRICULTURE, 1981-1983. 77 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. February 1984. Updates 83-20.

NAL--Q.B.--84-17. SHEEP HUSBANDRY IN THE U.S., 1979-1983. 175 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. March 1984.

NAL--Q.B.--84-18. DOUBLE CROPPING AND INTERPLANTING, JUNE 1982-DECEMBER 1983. 115 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. March 1984.

NAL--Q.B.--84-19. URBAN FORESTRY, JANUARY-DECEMBER 1983. 223 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. March 1984.

NAL--Q.B.--84-20. ETHYLENE DIBROMIDE (EDB), 1970-1983. 160 citations from AGRICOLA. Language none-excluded. Searched by Maria G. Pisa. March 1984.

NAL--Q.B.--84-21. WORLD GRAIN TRADE: IMPLICATIONS FOR THE FUTURE, 1970-1983. 247 citations from AGRICOLA. Language none-excluded. Searched by Mary E. Lassanyi. March 1984.

NAL--Q.B.--84-22. MINI AND MICROCOMPUTERS IN AGRICULTURE. 261 citations from AGRICOLA. English only. Searched by Maria G. Pisa. March 1984.

NAL--Q.B.--84-23. LOW SODIUM DIETS, JANUARY 1982-DECEMBER 1983. 99 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. April 1984. Supersedes 84-13.

NAL--Q.B.--84-24. AGRICULTURAL LIBRARIANSHIP AROUND THE WORLD. 205 citations from AGRICOLA. Language none-excluded. Searched by Jayne T. MacLean. April 1984.

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NAL--Q.B.--84-27. INSECTIVOROUS PLANTS, 1970-1983. 41 citations. Language none-excluded. Search by W. H. Longenecker. April 1984.

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NAL--Q.B.--84-29. MARKETING COOPERATIVES: THEIR ORGANIZATION, OPERATION, AND MANAGEMENT. 243 citations from AGRICOLA. Language none-excluded. Searched by Maria G. Pisa. April 1984.

NAL--Q.B.--84-30. THE "WHYS" AND "HOWS" OF FARM CREDIT IN AGRICULTURAL FINANCING, 1979-JAN. 1984. 242 citations from AGRICOLA. Language none-excluded. Searched by Mary E. Lassanyi. April 1984.

NAL--Q.B.--84-31. CURRENT SITUATIONS AND PROSPECTS FOR AUSTRALIAN AND NEW ZEALAND AGRICULTURAL MARKETS, 1979-JAN. 1984. 169 citations from AGRICOLA. Language none-excluded. Searched by Mary E. Lassanyi. May 1984.

NAL--Q.B.--84-32. LIVESTOCK FEED ADDITIVES, 1979-1983. 189 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. May 1984.

NAL--Q.B.--84-33. EFFECTS OF NUCLEAR ATTACK ON AGRICULTURE, 1969-1983. 86 citations from AGRICOLA. Language none-excluded. Searched by Charles N. Bebee. May 1984.

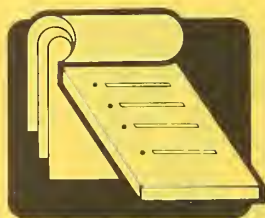
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NAL--Q.B.--84-35. THE MARKET POWER OF SOUTH AMERICA, 1970-JAN. 1984. 307 citations from AGRICOLA. Language none-excluded. Searched by Mary E. Lassanyi. May 1984.

NAL--Q.B.--84-36. NONPOINT SOURCE POLLUTION: AN AGRICULTURAL CONCERN, 1981-1984. 126 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. May 1984. Supersedes 82-03.

NAL--Q.B.--84-37. URBAN AND COMMUNITY GARDENING, 1970-1984. 113 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. May 1984.





NEW SERIALS RECEIVED AT NAL

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STATION, UNIVERSITY OF MAINE AT ORONO.
Orono, ME, The Station. irreg. (Mar.
1983)-

100 b M28S(1)

CLASSICAL AND QUANTUM GRAVITY.
Bristol, England, Institute of Physics.
b.-m. Vol. 1, no. 1 (11 Jan. 1984)-
QC173.96.C5

DEVELOPMENTS IN PLANT GENETICS AND
BREEDING. New York, Elsevier. irreg.
No. 1 (1983)-

SB123.D41

FRESHWATER INVERTEBRATE BIOLOGY.
Milwaukee, WI, Freshwater Invertebrate
Biology, Inc. q. Vol. 1, no. 1 (Feb.
1982)-

QL141 b .F73

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Mainz, West Germany, Akademie der
Wissenschaften und der Literature.
irreg. Vol. 1 (1983)-

QP351.15

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Practical Perspectives. m. Vol. 1,
no. 1 (Jan. 1984)-

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Amsterdam, Netherlands, Elsevier
Biomedical. b.-m. Vol. 112, no. 1
(Feb. 1983)-

AH431.M87

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U.S. DEPT. OF AGRICULTURE.
Washington, D.C., The Service. irreg.
Vol. 1, no. 1 (Nov./Dec. 1983)-

aS21.D4N4



NEW PUBLICATIONS OF NOTE

*AUTOMATED BEEF CARCASS CLEANING SYSTEM.
Washington, D.C., U.S. Department of
Agriculture, Agricultural Research Service,
April 1984. (Utilization Research Report
No. 7). 23 p. \$1.75.

*CULTURAL CONSERVATION: THE PROTECTION OF
CULTURAL HERITAGE IN THE UNITED STATES.
Ormond H. Lewis. Prepared by the Library
of Congress American Folklife Center and
the U.S. National Park Service, Washington,
D.C., 1984. 123 p. \$4.50 (Stock No.
030-000-00148-6).

*FAMILY ECONOMICS REVIEW. Washington,
D.C., U.S. Department of Agriculture,
Agricultural Research Service, April 1984
(No. 2). 40 p. \$4.50.

**FEDERAL TECHNOLOGY CATALOG SUMMARIES OF
PRACTICAL TECHNOLOGY. Springfield, VA,
U.S. Department of Commerce, Center for the
Utilization of Federal Technology, National
Technical Information Service, January
1984. 212 p. \$23.50 (Order No.
PB84-105634/TECH.)

FRANK N. MEYER: PLANT HUNTER IN ASIA.
Isabel S. Cunningham. Iowa State
University Press. 296 p. \$29.95. Order
from Publisher, 2121 S. State Ave., Ames,
IA 50010, April 1984.

*Order from Superintendent of Documents,
U.S. Government Printing Office,
Washington, D.C. 20402. Tel: (202)
783-3238.

**Order from National Technical Information
Service, Identification Section, 5285 Port
Royal Road, Springfield, VA 22161. Tel:
(703) 487-4780.





AGRICULTURE DATEBOOK

July 29–August 1: **THE GOLDEN ANNIVERSARY OF SOIL CONSERVATION.** 39th annual meeting of the Soil Conservation Society of America. Oklahoma City, OK, Sheraton–Century Center Hotel. Contact: Walt Peechatka, SC5A, 7515 Northeast Ankeny Road, Ankeny, IA 50021. Tel: (515) 289–2331.

August 5–8: **75TH ANNUAL MEETING OF THE AMERICAN AGRICULTURAL ECONOMICS ASSOCIATION (AAEA).** Cornell University, College of Agriculture and Life Sciences. Ithaca, NY. Contact: Dept. of Agric. Economics, University of Kentucky, Lexington, KY 40506.

August 5–9: **ANNUAL MEETING OF THE BOTANICAL SOCIETY OF AMERICA.** Fort Collins, CO. Contact: David Dilcher, Dept. of Biology, Indiana University, Bloomington, IN 47405.

August 5–11: **81ST ANNUAL MEETING, AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE.** Univ. of British Columbia, Vancouver, Canada. Contact: American Society for Horticultural Science, 701 N. Saint Asaph St., Alexandria, VA 22314. Tel: (703) 836–4606.

September 10–12: **BIOTECH '84 INTERNATIONAL CONFERENCE AND EXHIBITION.** Washington, D.C. Second world conference and exhibition on commercial applications and implications of biotechnology. Contact: Biotech '84, London OnLine, Inc., Suite 1190, Two Penn Plaza, New York, NY 10121. Tel: (202) 279–8890.

September 17–21: **THIRTEENTH WORLD CONGRESS ON DISEASES OF CATTLE.** Durban, Republic of South Africa. Contact: Prof. R. I. Coubrough, Chairman, Scientific Programme Committee, P. O. Box 35333, North Cliff 2115, Republic of South Africa.


October 21–26: **CARIBBEAN FOOD CROPS SOCIETY.** 20th Annual Meeting. St. Croix, Virgin Islands. Contact: Walter I. Knausenberger, Chairman, Organizing Committee; Caribbean Food Crops Society; College of the Virgin Islands, P. O. Box 'L', Kingshill, St. Croix, U.S.V.I. 00850. Tel: (809) 778–0246.

October 21–26: **CHALLENGES TO AN INFORMATION SOCIETY.** 47th ASIS Annual Meeting. Philadelphia, PA. Franklin Plaza. Contact: ASIS, 1010 16th Street, N.W., Washington, D.C. 20036. Tel: (202) 659–3644.

December 2–4: **42ND PROFESSIONAL AGRICULTURAL WORKERS CONFERENCE (PAWC).** Tuskegee Institute, AL. Theme: "Strategy for the Survival of Small Farmers in the United States. Deadline for papers submission is July 31, 1984. Contact: Dr. T.T. Williams, Director, Human Resources Development Center, P. O. Box 681, Tuskegee Institute, AL 36088. Tel: (205) 727–8764.

December 11–12: **ESCAP SPONSORED WORKSHOP ON STATE AND FEDERAL LIAISON.** Atlanta, GA. Contact: Glen W. Goss, Director of Agricultural Communications, The Pennsylvania State University, 401 Agricultural Administration Bldg., University Park, PA 16802. Tel: (814) 863–2702.

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June 2–6: **INFORMATION FOR FOOD.** VII World Congress of the International Association of Agricultural Librarians and Documentalists. Ottawa, Canada. Contact: Canadian Planning Committee, IAALD 1985, Room 249, Sir John Carling Blvd., Agriculture Canada, Ottawa, Canada, K1A 0C5. 

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